

ABSTRACT

5 An optical switching subsystem comprising; a plurality of  
input optical ports for inputting an optical signal, a  
plurality of output optical ports for outputting the optical  
signal, an optical switch formed by a micro electromechanical  
system (MEMS) for switching an optical path among said input  
optical ports and said output optical ports, a controller for  
10 instructing said optical switch to execute switching operation,  
and self-diagnosis means for measuring performance  
characteristics of said optical switching subsystem and  
diagnosing said optical switching subsystem based upon said  
performance characteristics.